KSP-1000

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number .

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately, if you unit was shipped to you directly, notify the shipping company furthout delay. Only the consignee (the person or company receiving the unit) can file a claim against the cautier for shipping damage.

We recommend that you recain the original carron and packing materials for use should you transport or ship the unit in the future.

Before applying power

important!

u.s.a.

Units shipped to the U.S.A. are designed for operation on 120 volts AC only.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Features and specifications

Features

- a. Up to 18 satellite positions can be memorized
- b. Protection system using EAST/WEST limit feature.
- c. PARENTAL LOCK system.
- Aemote control is possible in combination with the stored setellite receiver KENWOOD KSR-7000.
- Obtaction of position setting completion and of abnormality by buzzer.
- With the full time mirror recesses, the pulses from the estuator can be counted up to 9999.
- g. Various kinds salety protection system and position correction system by the microprocessor and circuits braker.

Specifications

Rated DC36V, below 4 A Position delection
Pulco Haraenen gyetam
Detection girquif:
DC 5V
CODERES KENNYOCO
KSA-1000 recommended)
At normal poeration:
0.08 A/120 V. 10 W, 60 Hz
At maximum:
1.5 A/120 V, 150 W, 60 Hz
Approx. 1 week at power
Remote control cable (1.5 m)
x 1. Short plug x 1
222×232×70 mm
(8-3/4" x 9-1/8" x 2-3/4")
4.4 kg 19.7 lbl

Safety precautions

CAUTION NO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACKO NO DECK-SERVICEAGLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSON. NEL
A	The hightning flash with arrowhead symbol, within an equilibrial triangle, is intended to along the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of surficient magnitude to constitute a risk of electric shock to persons.
lack	The explamation point within an equilibrary triangle is intended to alert the user to the pre-sence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

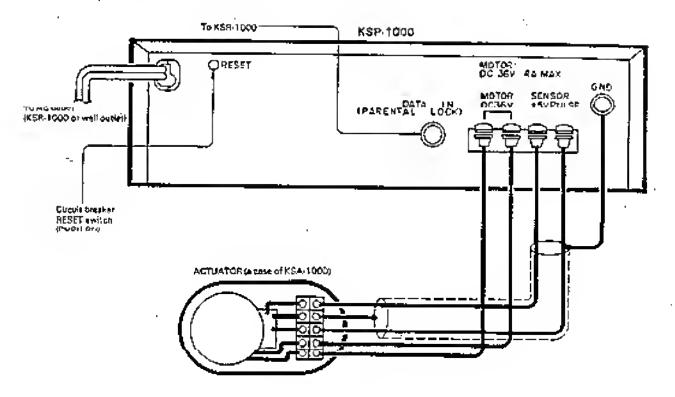


Fig. 1

None

Connection paterization of the image extract according to the installing direction of the assistance fields to 'Donnecting the installing direction of the assistance fields to 'Donnecting the installing directions.'

Connecting the actuator

This unit is not equipped with an actuator. Obtain the optional KENWOOD ACTUATOR KSA-1000 or an equivalent which uses 36 V pulse detection system. Connect the cables as shown.

Material and length of cables to be used

8.	For motors		
	- 120	#18	
	121' – 200'	⊯ 16	
	201 ~ 330	#14	
	331' -450'	#12	
h	For entiral pulse sensor		Lieffs aree 2
	-450°	#22	

Connecting the motor drive cables (with optional KSA-1000)

When the extended director of the actuator is WEST, connect the cobles as shown in Fig. 1,

When the extended direction of the actuator is EAST, compect the cables in the reverse way to the connection shown in Fig. 1. [Cross the motor cable wiring.]

When installing the cover after completion of the actuator wining, be sure to install the gasket and to tighten the sciews tighty.

Apply waterproofing to the cable port.

Connecting the power cord

Connect the power cord to an AC outlet of 120 V, 60 Hz. When the power cord is disconnected or the power is not supplied for more than 1 week, the preset memory contents may be crased.

Connecting KSR-1000

This unit can also be controlled by the optional KENWOOD STEREO SATELLITE RECEIVER KSR-1000. In this case, connect the DATA IN jack of this unit to the KSR-1000 with the supplied remote control cable. The length of the supplied cable is 0.45 feet. However, it can be extended up to 150 feet using a 2-core shield cable. If the length of the remote control cable exceeds 150 feet correct remote control operation cannot be assured.

Motes

When the KSR-1000 is not in use, be some to insert the short pin into the DATA IN jack. If the short pin is not inserted, the unit does not function because of the parental function. When the KSR-1000 is connected and the parental function is activated with the KSR-1000, this unit cannot be operated. When the power cord of the KSR-1000 is disconnected, the unit also cannot be operated.

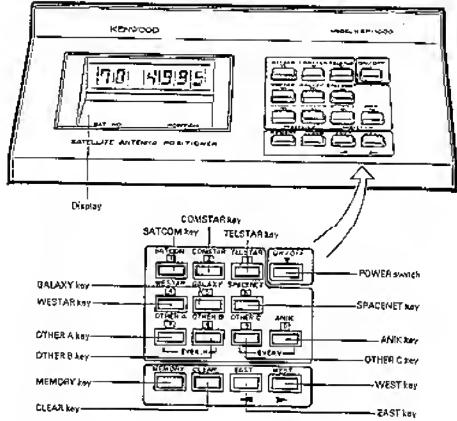


Fig. 2

Operating instructions

PARENTAL LOCK system

- a. To keep the unit out of reach of children, the unit has a feature by which all the key inputs can be made void by disconnecting the DATA IN jack.
 - Therefore, when the unit is not used in combination with other systems, be sure to first connect the supplied short plug into the DATA IN jack on the rear pacel.
- b. When the unit is used in combination with the optional satellite receiver KSR-1000, connect the ANTENNA DATA OUT jack of KSR-1000 on the rear panel and the DATA IN jack of the unit with the supplied remote control cable.

With this connection, the PARENTAL LOCK system of the XSR-1000 is applied to the unit.

To took the antenna only, without looking XSR-1000, disconnect the remote control cable.

initial setting

- When the power is first supplied, the position is "5000".
 Set the EAST/WEST limit.
- b. EAST/WEST limit setting

Be sure to set both of EASTAVEST limits.

- (1) EAST limb setting: When the EAST key is pressed with the CLEAR Key kept pressed "许一一一((元代:flashes) is displayed to indicate the EAST limit is being set.
- (2) Observing the dish, pless the EAST key and move the actuator in the direction of EAST so that the actuator does not reach the end. Check the furthest EAST satcline broadcasting is received, and set the area around the furthest EAST satellite broadcasting reception point as the limit.

- (3) Serving the limit is possible by pressing the EAST key with the MEMORY key pressed. At this time, "End" is displayed to indicate that the east limit is set. (When the WEST key is pressed with the CLEAR key pressed, the display shows " \(\begin{align*} & \rightarrow \limits \] and the unit stands by for west finit serting.
- (4) Naxt, set the WEST limit.

Press the WEST key while pressing the CLEAR key. The display shows " Harris and WEST firms setting is possible.

15) For WEST limit setting, perform the same procedure as for EAST limit setting. When the WEST limit setting is completed, the display shows END to indicate both EAST and WEST limit settings are completed.

Note 1:

Be suite to derform the limit setting first. When the limit per sition is changed, this marriory contents are cleared.

Note 2:

KSR-1000' s SCAN (enture is very useful for searching the satelline.

How to activate the SCAN feature of KSR-1000

- a. Set KSR-1000 to SCAN mode.
- to Trim the dich to EACT ward or WEST-ward using KSP-1000.
- As the dish approaches the setelline, the picture can be momentally seen on the TV screen.
 When the picture appears on the screen, stop the dish.

- d. Set the KSR-1000 to SCAN mode, and search the excure sending transponder with the TRANSPONDER control.
- Perform fine adjustment with KSP-1000 so the best picture is received.

Note 3:

When the approver is moved by preasing the CAST in vyest key after the EAST and WEST limit settings are completed and the actuator reaches the limit position, the SAT, NO, display shows END and the beep sound is heard swice to indicate the limit position is reached.

Note 4:

When the EAST/WEST limit is released, into position display shows "5000".

Selecting and storing satellites

Up to 18 satellite positions can be stored in the unit. Search for the best position of the satellite in the direction specified in Note 2 above.

Memorizing sate/lites: When the best position is located, press the MEMORY key. The SAT, NO, display shows (filashes) to indicate the memory is possible. Input the 2-digit combet corresponding to the equalitie report (Ex. SATCOM F3: 1.3) using the satellite selection

Note:

keys,

When you try to store the 19th satellite in the unit, the display flashes to indicate overflow of the unit's memory capacity.

At this time, perform the memory clear procedure (Refer to "Clearing the stored memory" below.)

Clearing the stored memory

Recall the stored satellite to be cleared with the satellite selection keys. Press the CLEAR key with the MEMORY key pressed. The display momentarily flashes and memory of the satellite is cleared.

Regalling the started satellites

- a. The stored memory of the satellite position can be recalled by inputting the 2-digit satellite number using the satellite selection keys (Ex. SATCOM F3: 11.63). When the satellite is recalled, the actuator automatically moves to the stored position. When the actuator reaches the stored position, the beep sound informs the operator that the stored position is reached.
- N. Whom the desemble manual importary are 4-digit number is not stored, the display indicates ERROR.
- c. When the unit is used in combination with KSR-1000, setting the satellite name with KSR-1000 automatically moves the unit's actuator to the satellite's position. At this time, the POWER ON/OFF and the PARENTAL LOCK system can be remotely controlled by sterco satellite receiver KSR-1000.

Safety protection systems

in the event the actuator does not operate normally (such as when the actuator is out of order, the connecting cable is disconnected or broken, or the actuator moves to the end for some reason, etc.). The beep sound is heard concurrently and the motor output is suspended by the $un\pi$'s misroprocessor-controlled protection events.

At this time, eliminate the causes of trouble and the unit can be operated normally.

Re-synch feature _ fict Are

Just after repairing the laulry actuator or when the actuaror installation-pair worn out, the best position sometimes may not correspond to the stored position like best positions of all the satellines are uniformly off the stored positions; At this time, the unit's respect readure is very useful to return the stored positions to the normal positions without storing the correct memories again.

How to activate the re-synch feature

(a) Select one of the stored satellites.

Example: Display

13 5067

tine picture is not clear.

(b) Move the actuator to the best position for the picture using the EAST or WEST key.

Example: Display

5068
5069
5070

WEST key with the MEMORY key prossed.

The display becomes like the litustration shown below.

Example: Display

13 5067

Circuit brakes (222 Com

When the output cable is short circuited or an abnormal todo is autored to the actuator motor, the circuit braker to leases the motor drive to protect the inner circuit and the power supply stops.

At this time, eliminate the causes of trouble and press the RESET button on the rear panel to set the unit to cormal operation mode.

If the unit does not function correctly, check the following. If the trouble still persists, contact your dealer.

Symptom	Cause	Bornedy
O Key is not possible.	O Power cord is disconnected. O The circuit braker is operated. O Short pin or remote control cable is disconnected.	O Connect the power gold. O Press the RESET burion on the real panel. Connect securally
	 The power cord of the KSR-1000 is disconnected. The perental feature is operated with the KSR-1000. 	O 1. Connect the power cord of the KSR-1000 2. Connect the short pin instead of the remote control cable. O Release parental mode or connect the short pin.
O The circuit braker functions.	O The motor cable is short circuited. O The actuator is over-loaded.	O Check the output lacks actuator motor cable, etc. for short circuit and press the RESET button. O Isolate the cause and press the RESET button.
O When the EAST or WEST key is operated, a beep signal sounds, but the antenna does not move.	 Inferior connection of the jacks. Broken cable. Objective actuator. The unit is set to the mechanical limit position. 	O Connect the unit and actuator securely. O Check the connection for incorrect willing or proken cable. O Replace. O Reset the limit position.
When the No. is input, the error ingi- cation appears.	Not memorized. O Memory erased	O The input sateffite No. is not memorized. Store the satellite No. 1. When the power cord is discremeded or power outage lasts for more than 1 week, the memory confents are erased. Rememorize. 2. When the fimit position is changed, the memory contents are erased.

This unit contains microcomputers. External electronic noise or interference could cause maticulationing. In such cases, unplug the power cord, then plug it in again and check the functions.